



NEWMIND
47 W. Polk St. STE 100-241
Chicago, IL 60605

newmind@newmind.com
www.newmind.com

CERTIFICATE OF ANALYSIS

CRL-40,941
(Fladrafenil)

Material Lot #: 20161200028 Manufacture Date: 12/20/2016
Country of Origin: China Retesting Date: 12/25/2018

Analysis	Claim	Result
----------	-------	--------

CRL-40,941	>98.0%	>99.2%
------------	--------	--------

Test	Claim	Result
------	-------	--------

Appearance	Off-white or slight-pink crystalline powder.	Conforms
Solubility	Almost insoluble in water, soluble in methanol, slightly soluble in ethylacetate & dichloromethane	Conforms
Related Substances		
Largest Single Impurity	≤ 0.5%	0.40%
Total Impurity	≤ 1.0%	0.75%
Loss on Drying	≤ 0.5%	0.45%
Sulphated Ash	≤ 0.1%	0.07%
Heavy Metals	≤ 20ppm	Conforms

CRL-40,941 should be stored at or below room temperature in a tightly sealed durable container.
CRL-40,941 should be protected from excess heat, direct sunlight, excess humidity and moisture.
CRL-40,941 has a stable shelf life of 3 years from the date of testing when properly stored.



NEWMIND
47 W. Polk St. STE 100-241
Chicago, IL 60605

newmind@newmind.com
www.newmind.com

CERTIFICATE OF ANALYSIS

Product Name	CRL-40,941	Product Lot Number	20161200028
Report Date	01/12/17	Laboratory Number	8096

Test	Method	Results
CRL-40,941	CA-137 (HPLC-UV)	100.5%
Identification	¹ H-NMR	Positive
Lead	ICP-MS USP <730>	0.011 ppm
Arsenic	ICP-MS USP <730>	0.051 ppm
Cadmium	ICP-MS USP <730>	<0.001 ppm
Mercury	ICP-MS USP <730>	<0.001 ppm

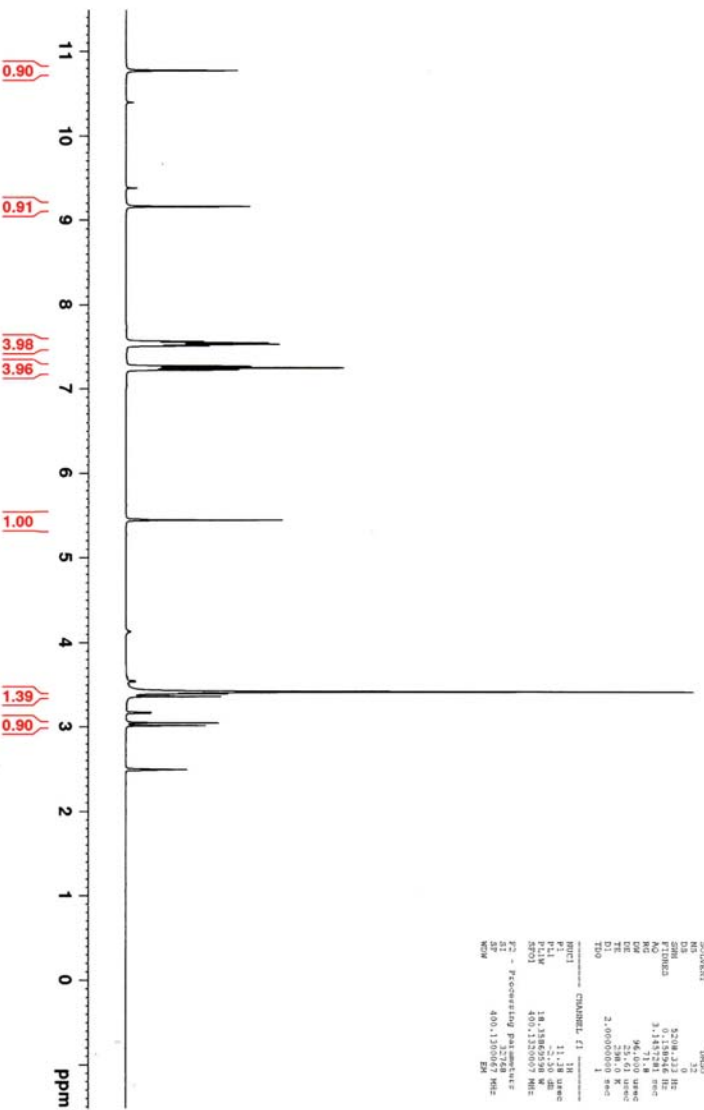
Connor Holt
QA Auditor

Connor Holt

01/12/2017
Date

1-12-17

¹H NMR of CRL-40,941
 In DMSO
 Lot # 8096
 Colmaric Analytical
 1-10-17



Current Data Parameters
 NAME 3ml0-2017-colmaric
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20170110
 Time_ 11:28:48
 INSTRUM spect
 PROBHD 5 mm PABBO SBO
 PULPROG zgpg30
 TO 27.000
 TD 65536
 SFO 400.130
 AQ 1.00000000
 RG 32
 IN 32
 CH 32
 FIDRES 3200.23 Hz
 AQRES 0.158946 Hz
 SFO 400.130000 MHz
 NU 1
 DS 2
 DE 71.8 sec
 TE 300.2 K
 D1 2.00000000 sec
 T1 1.50000000 sec
 T2 0.10000000 sec
 T3 0.10000000 sec
 T4 0.10000000 sec
 T5 0.10000000 sec
 T6 0.10000000 sec
 T7 0.10000000 sec
 T8 0.10000000 sec
 T9 0.10000000 sec
 T10 0.10000000 sec
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 11.00
 F1 400.130000 MHz
 P1L1 18.00000000 dB
 SFO1 400.1300000 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.130000 MHz
 DS 2